

Fig. 2

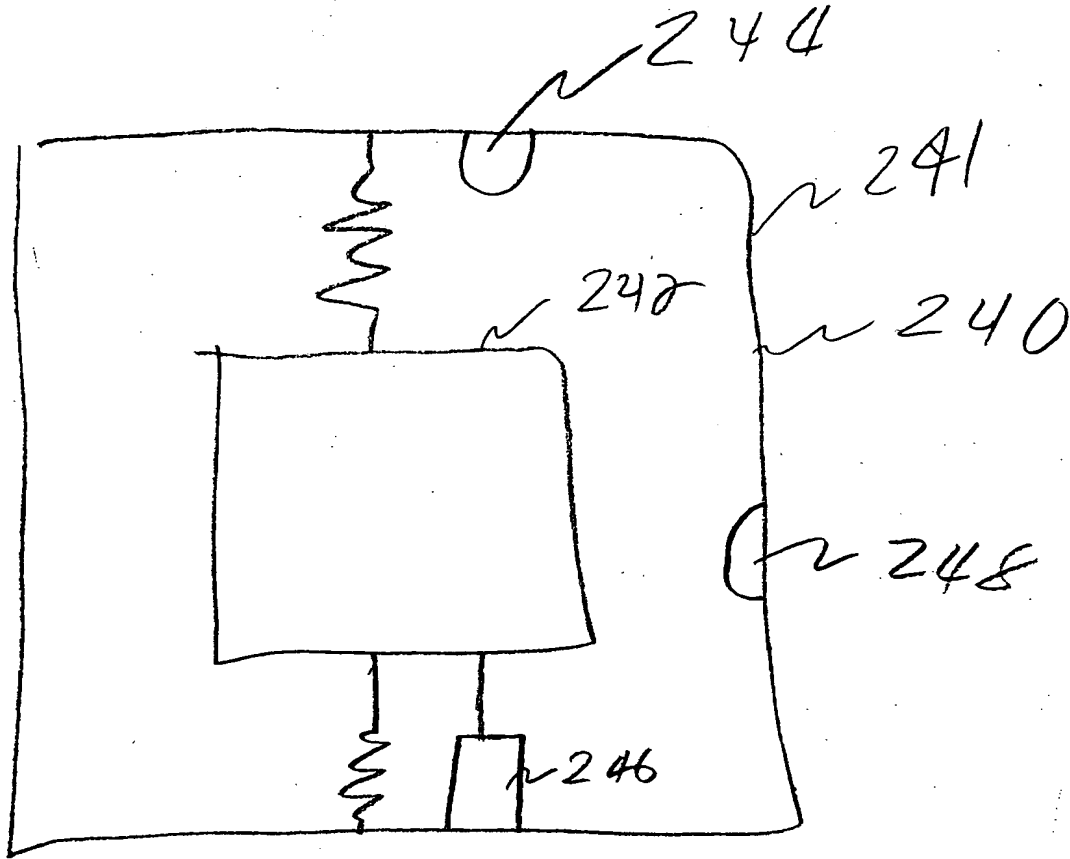


Fig . 3

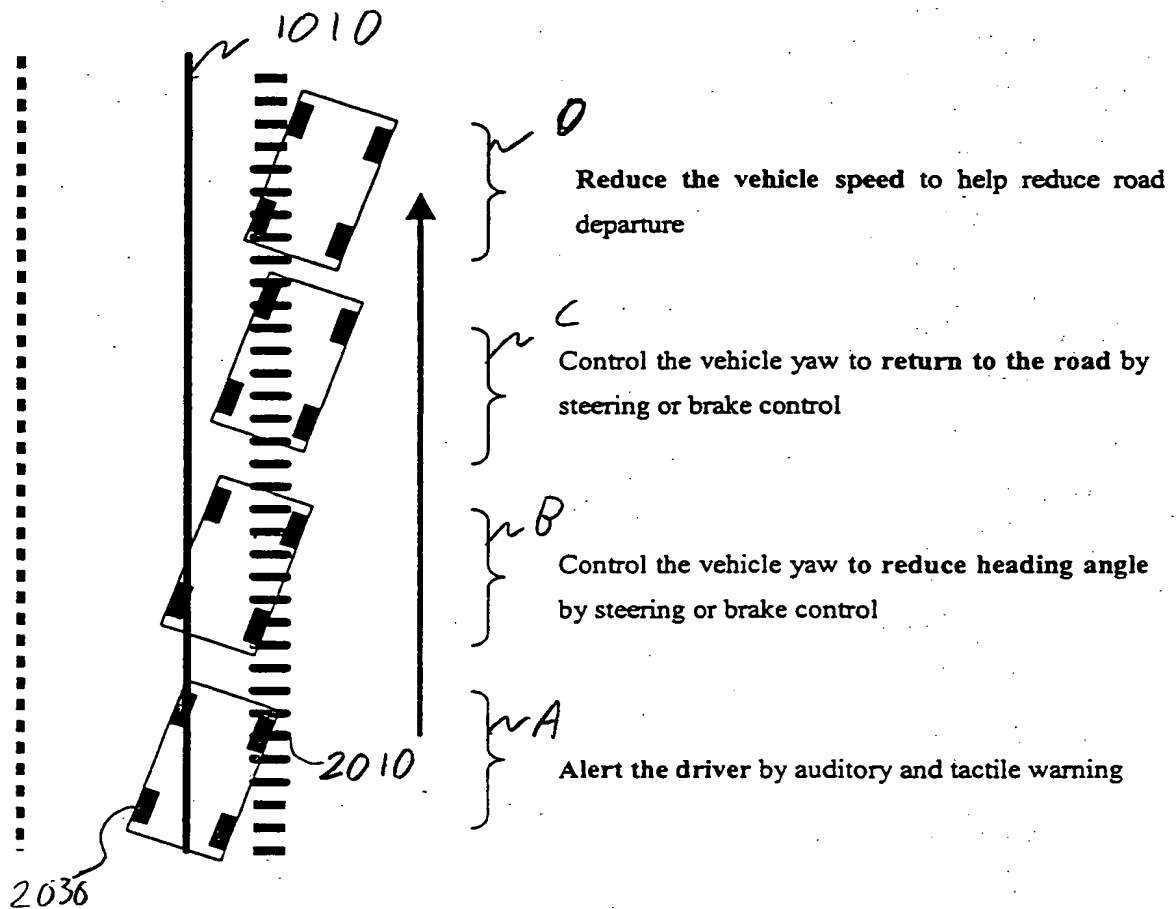


Fig. 4

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Calculation of the Lateral speed at Deviation

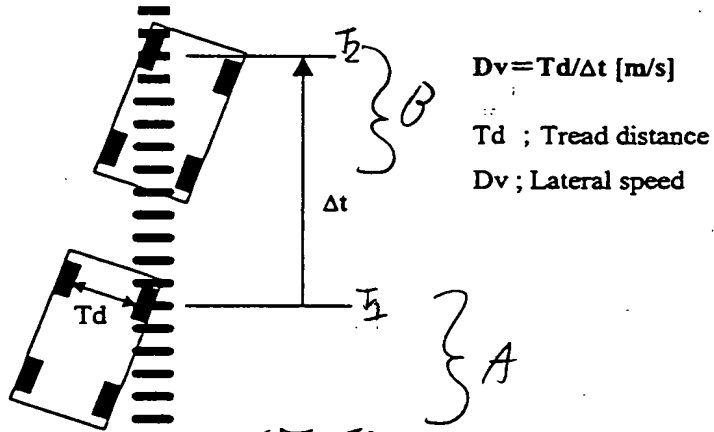


Fig. 5a

Calculation of the heading angle at deviation

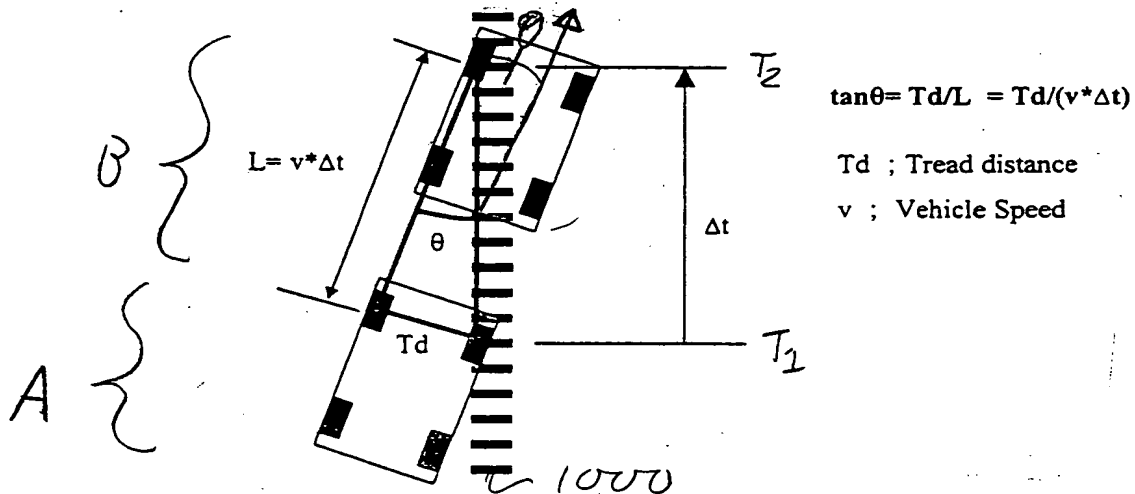


Fig. 5b

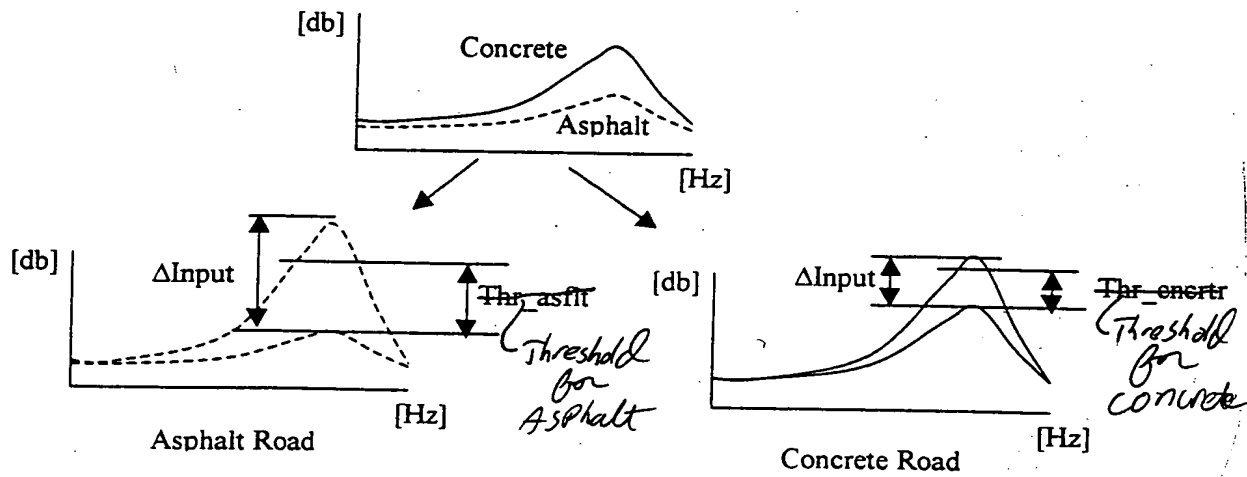


Fig. 6

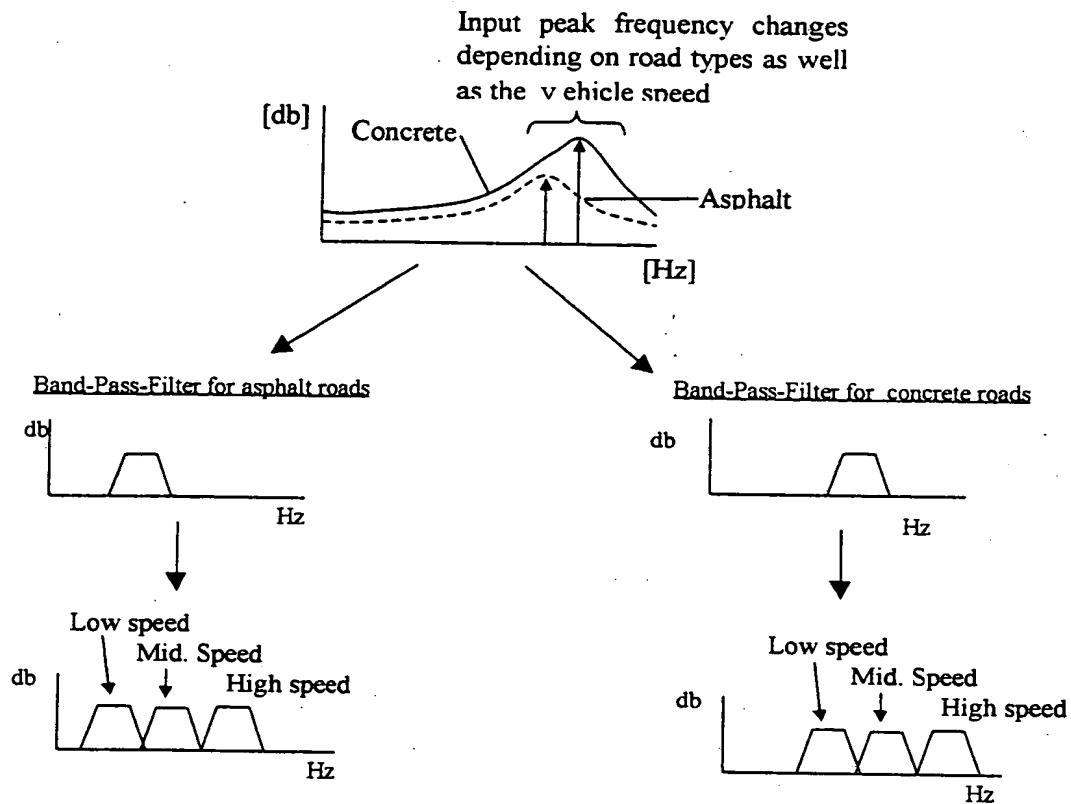


Fig. 7

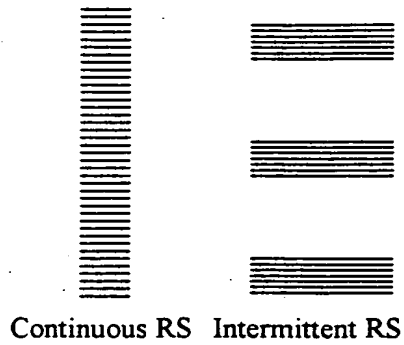


Fig. 8

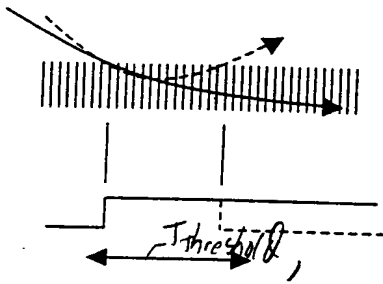
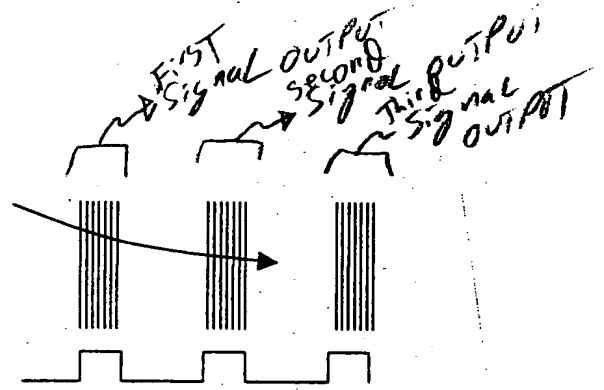
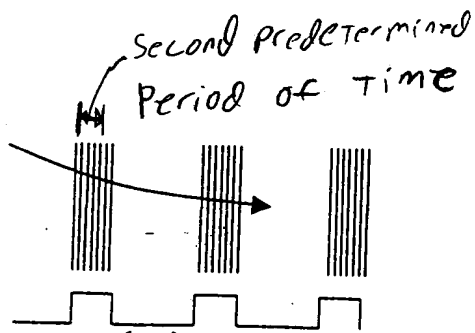


Fig. 9



$T_{threshold}$ Fig. 10



$T_{between}$
Fig. 11 $T_{predetermined}$

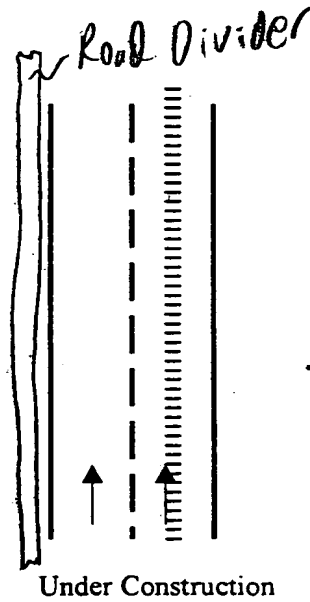


Fig. 12

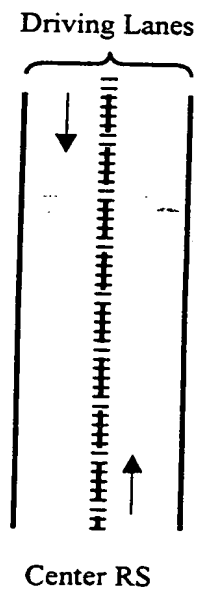


Fig. 13

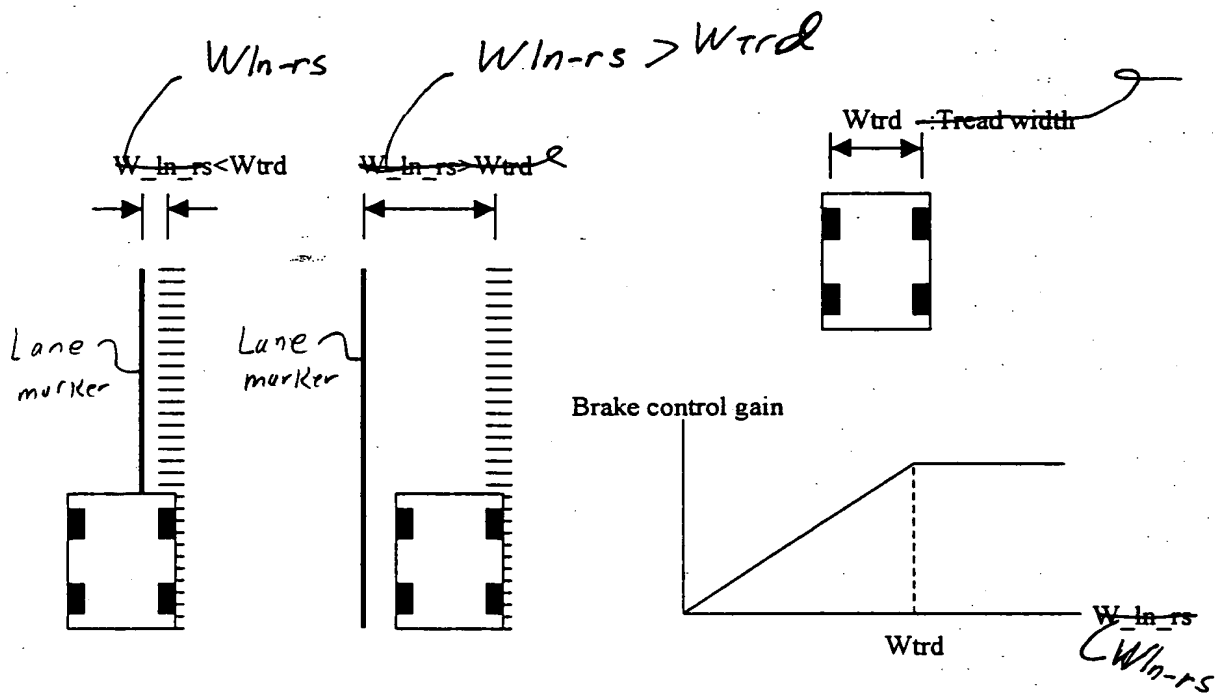


Fig. 14

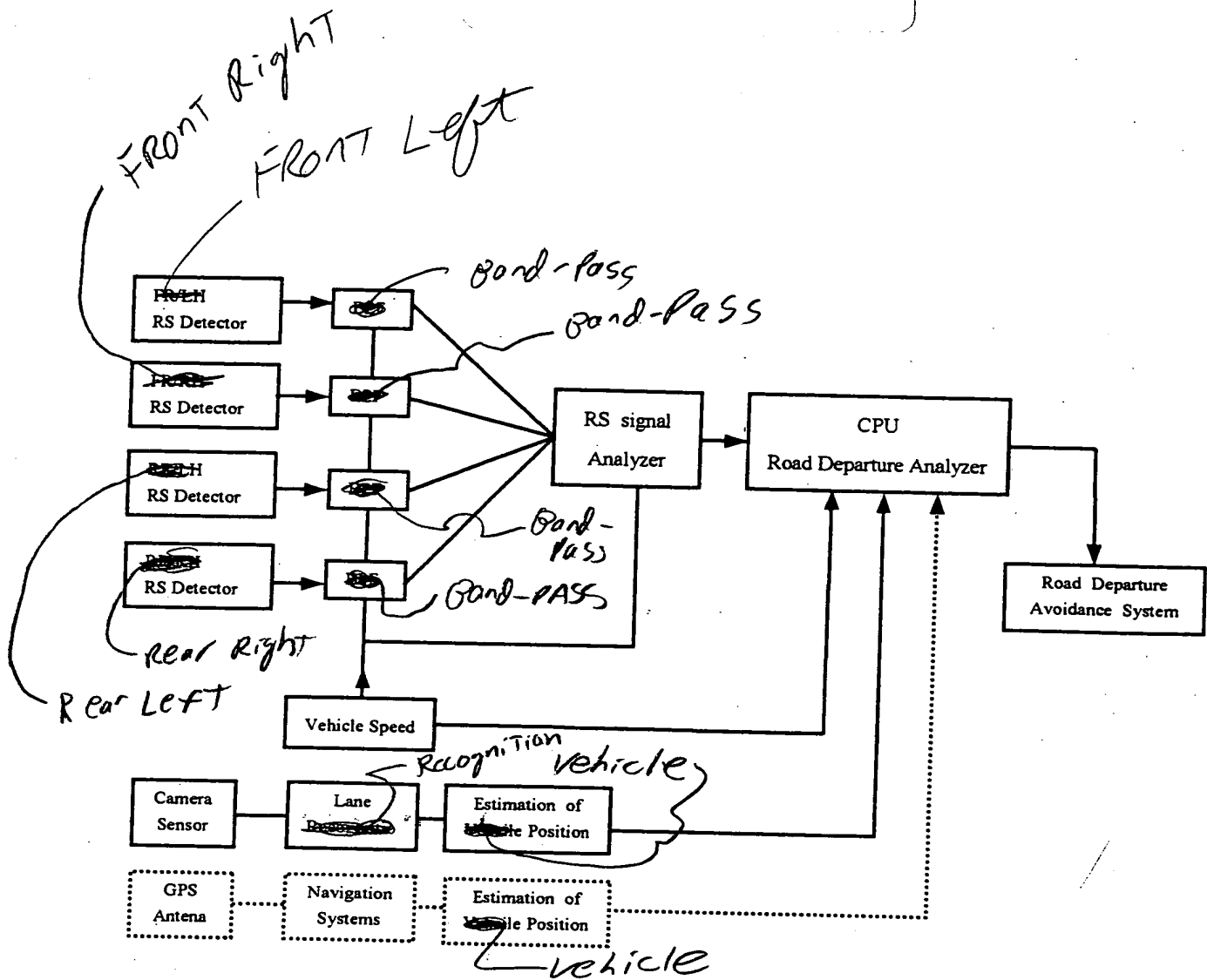


Fig. 15

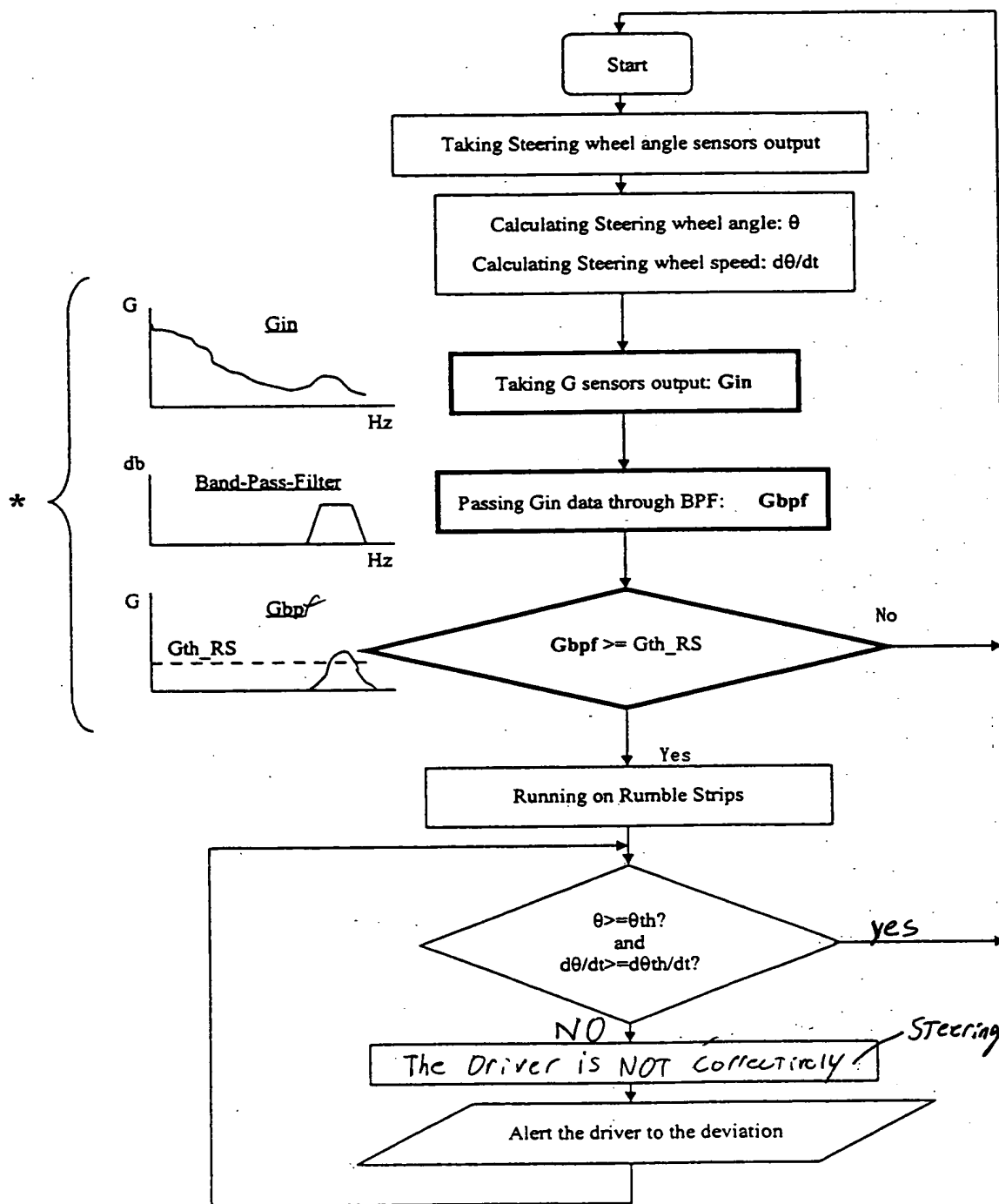


Fig. 16

Exemplary
Cut-off frequencies of Band-Pass Filter in ~~response~~ *response* to vehicle speed

The pattern of rumble strips: cycle distance ; 30.48cm (1foot)

140~ km/h 128 Hz BPF#1

120~140km/h 109 Hz BPF#2

100~120km/h 91 Hz BPF#3

80~100km/h 72 Hz BPF#4

60~80km/h 55 Hz BPF#5

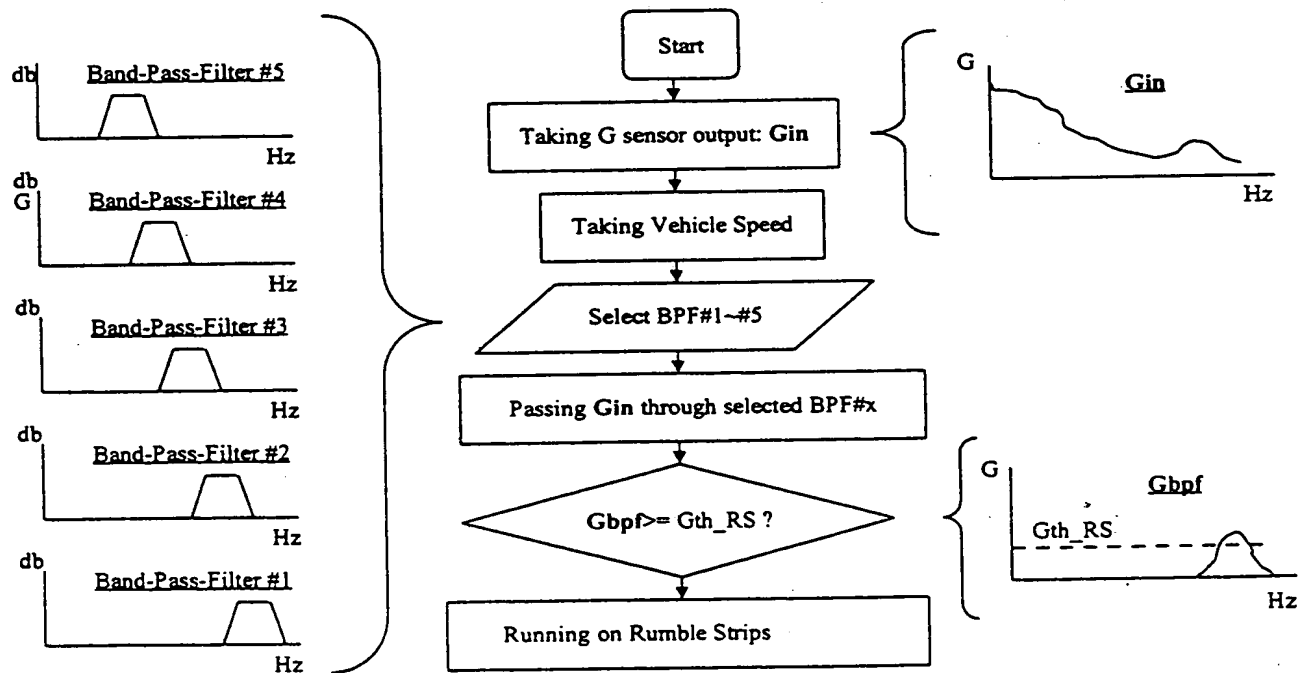


Fig. 17

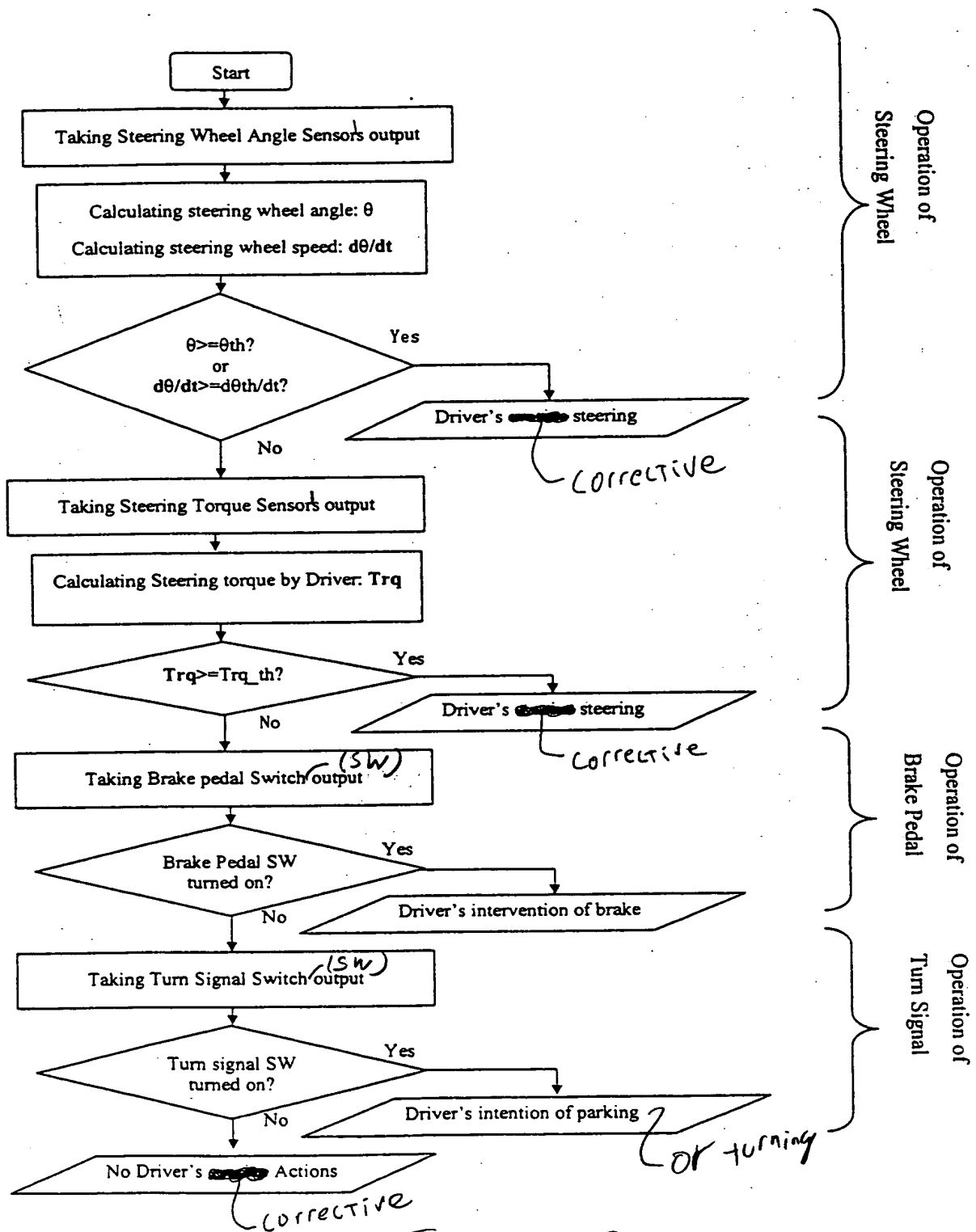
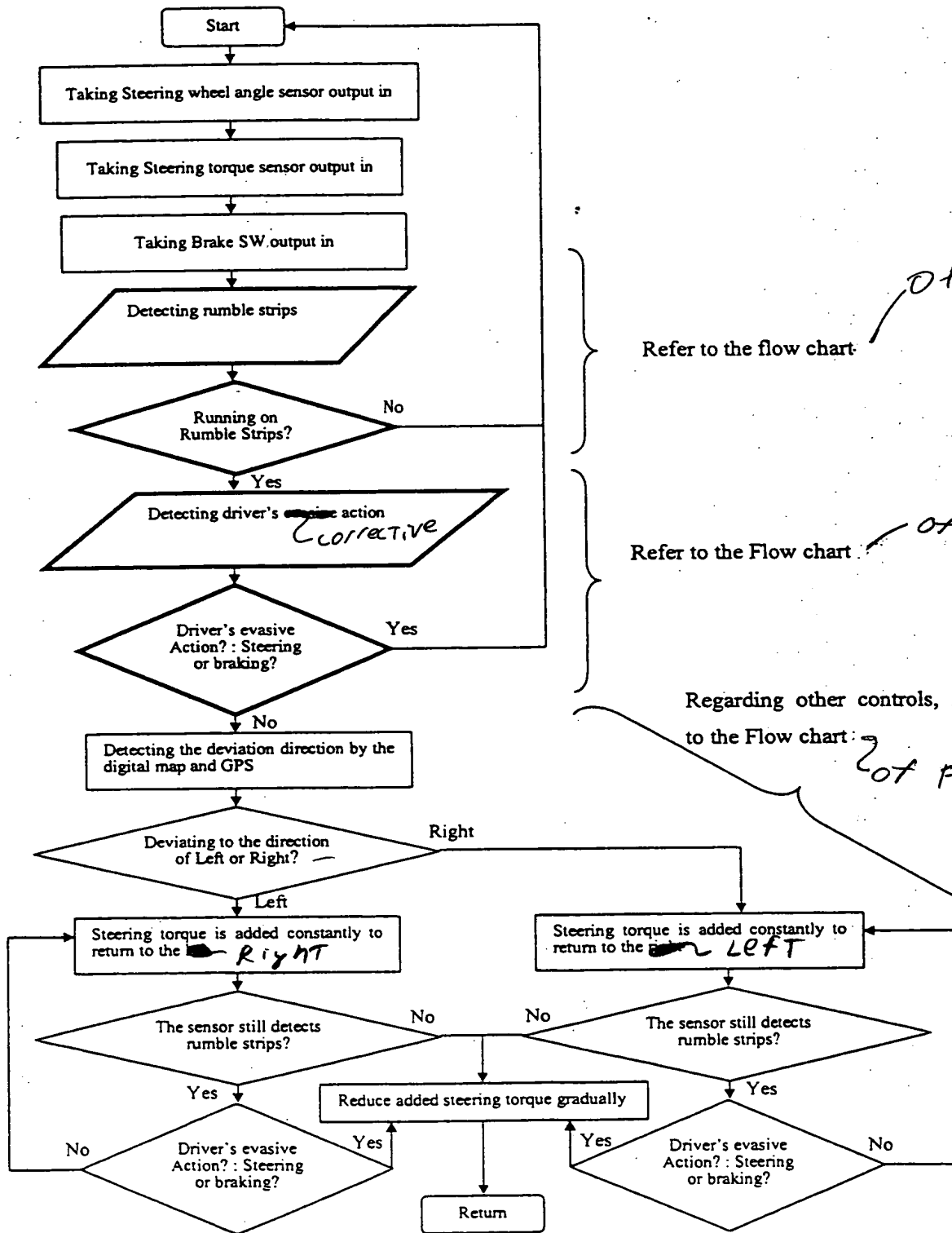


Fig. 18

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Refer to the flow chart.

Refer to the Flow chart.

Regarding other controls, Refer to the Flow chart.

Fig. 19

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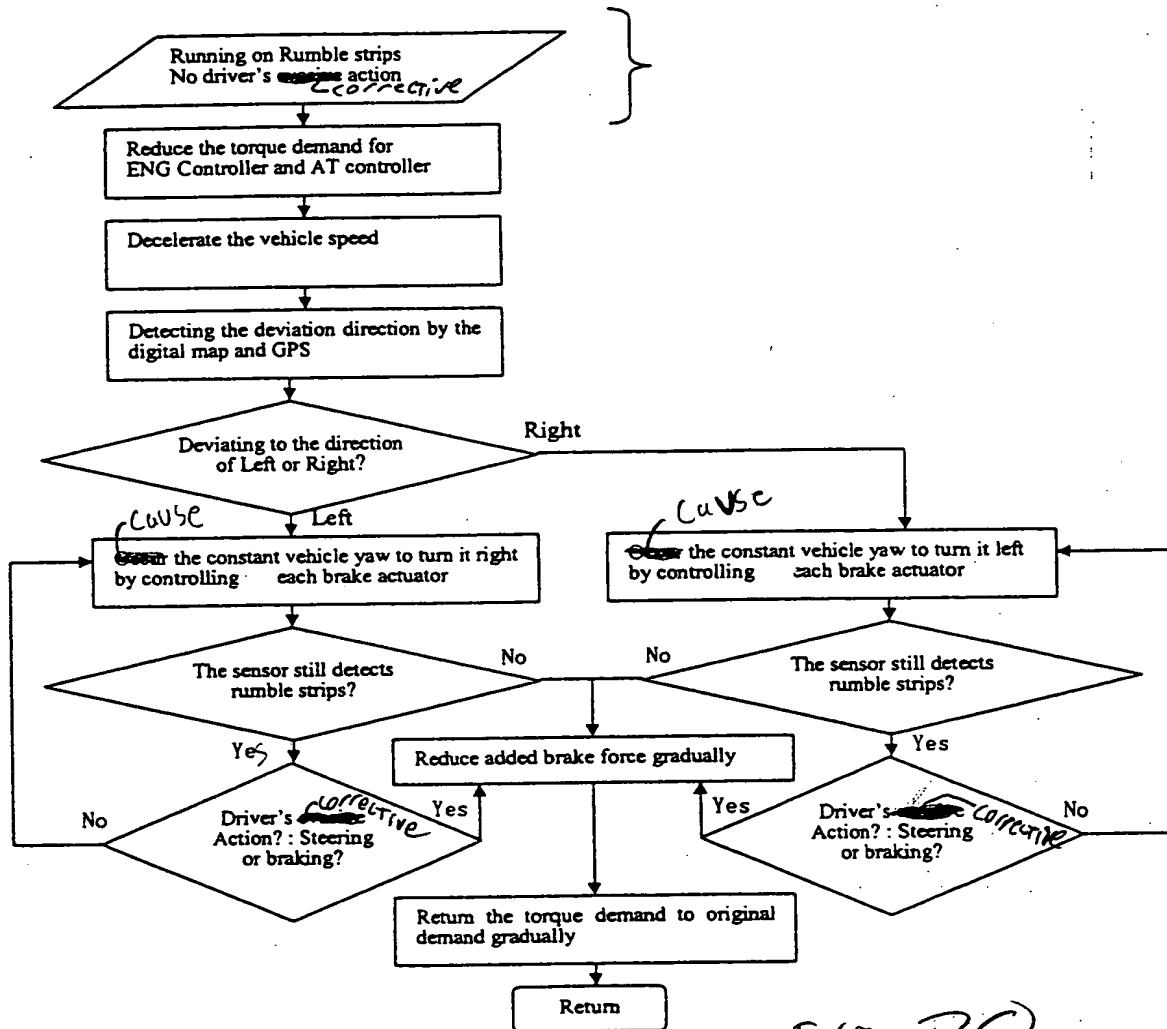


Fig. 20

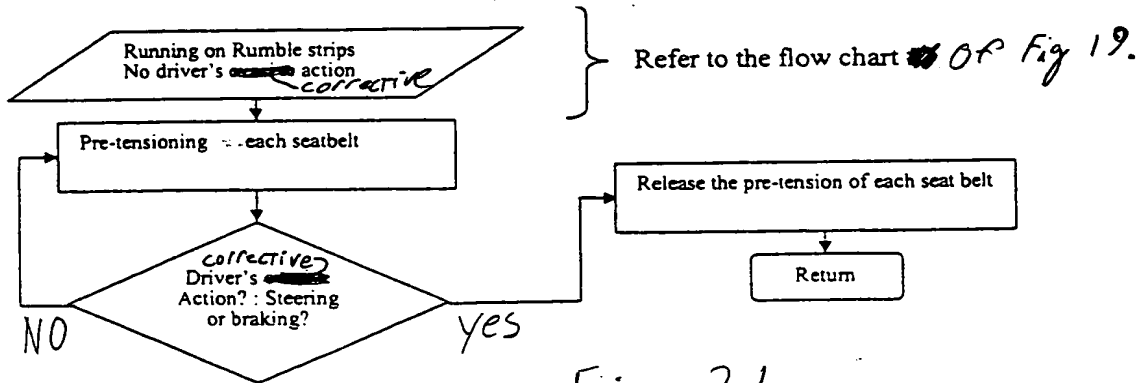


Fig. 21

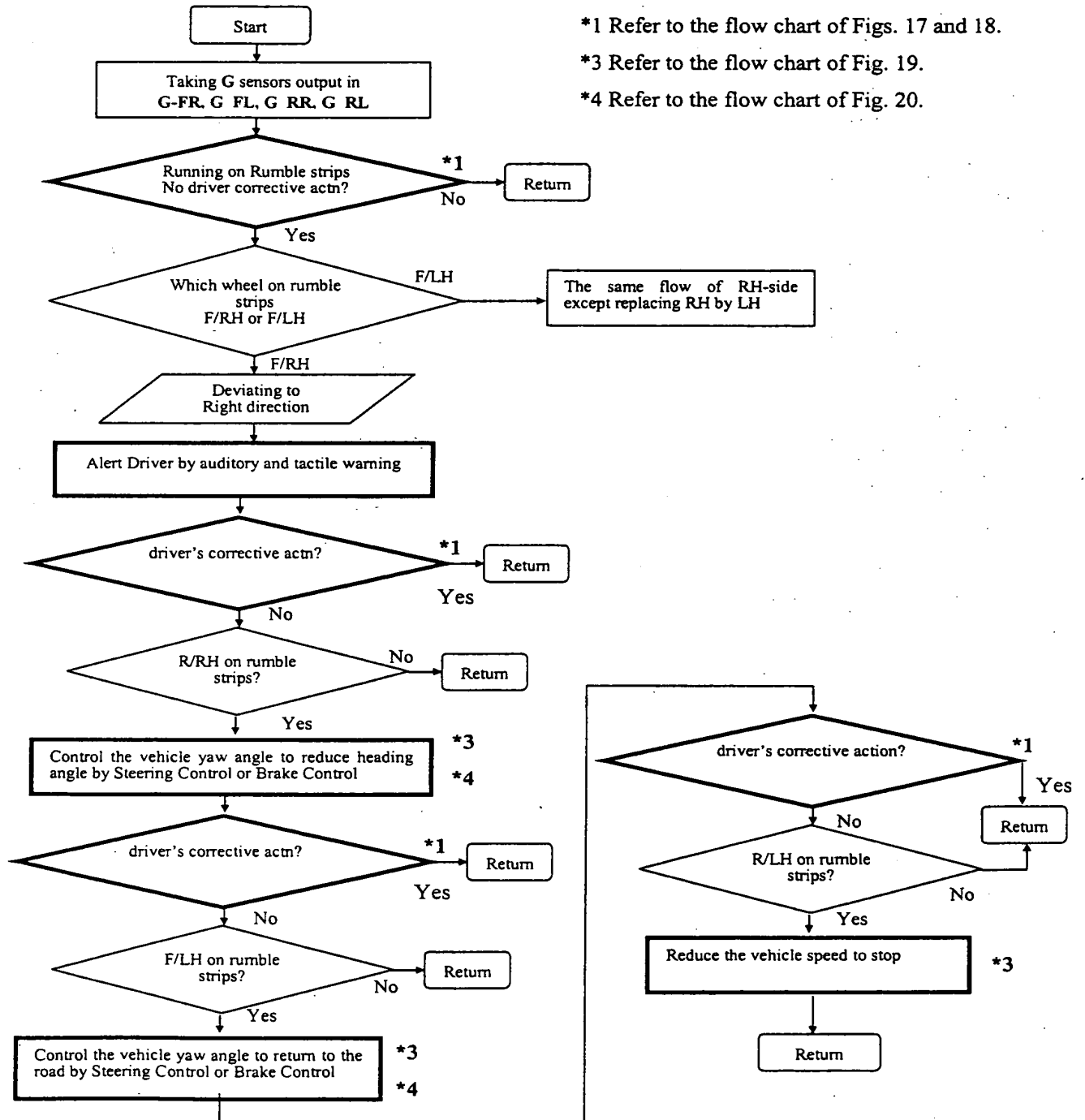


Fig. 22

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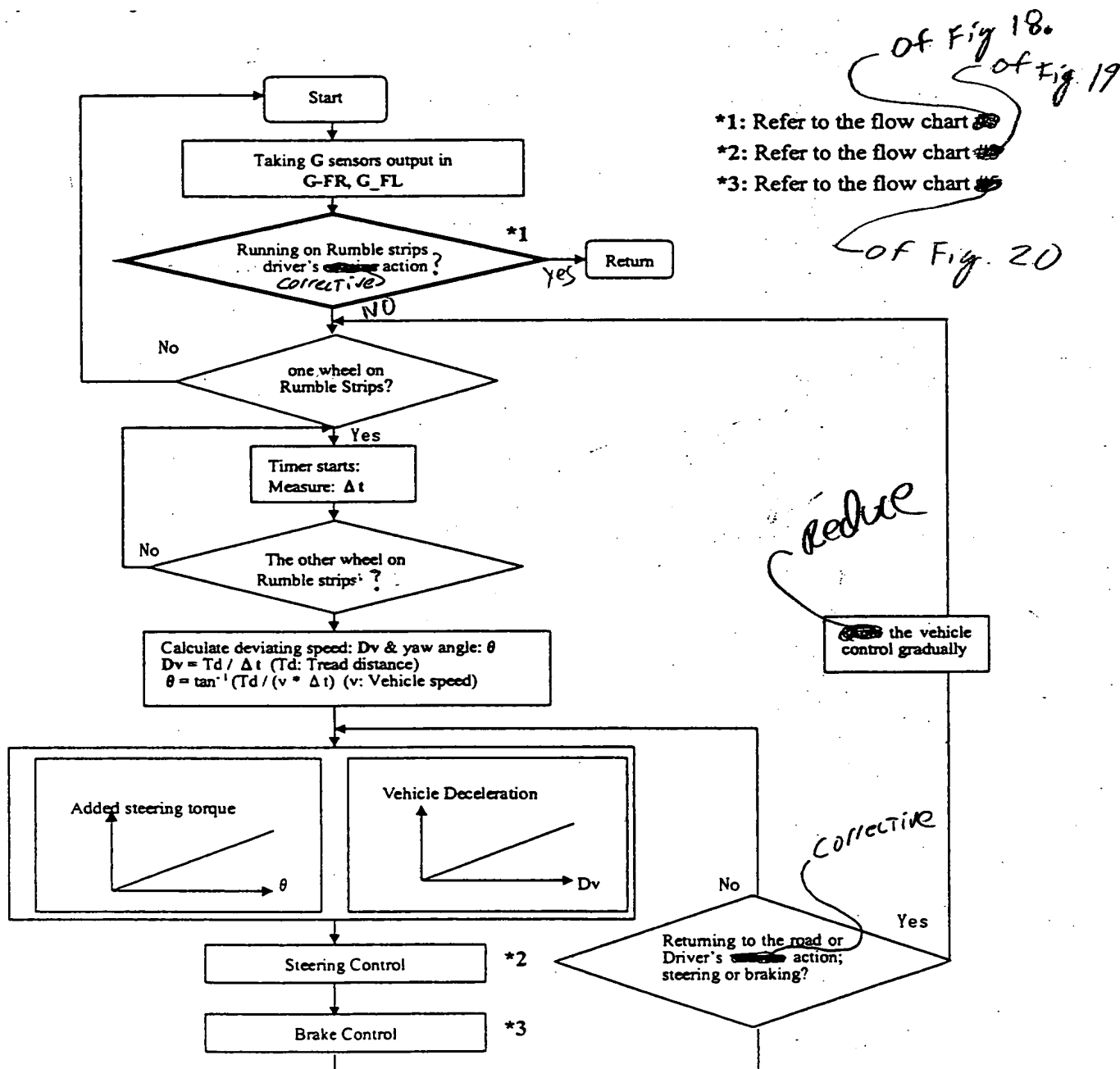


Fig. 23

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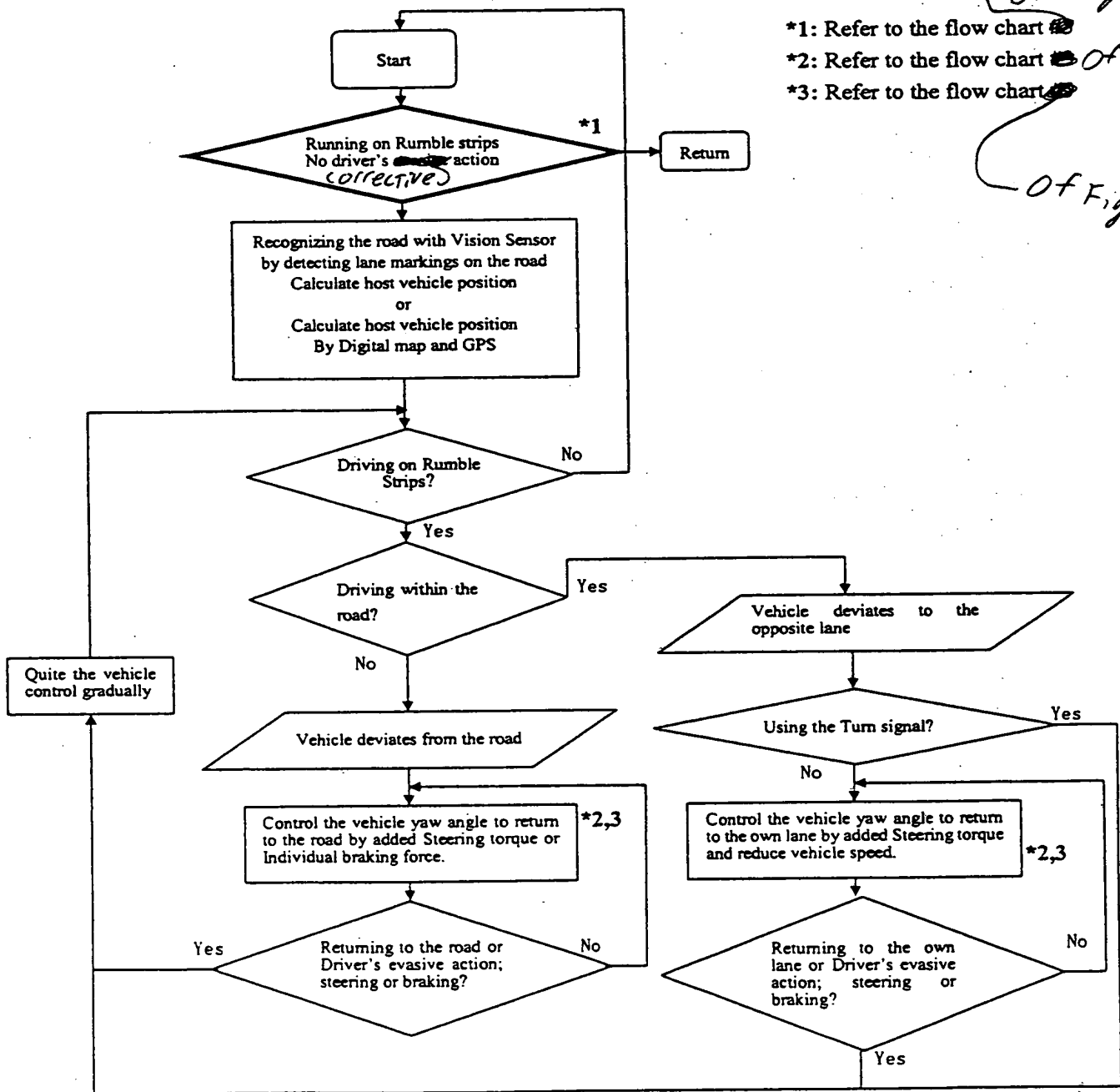
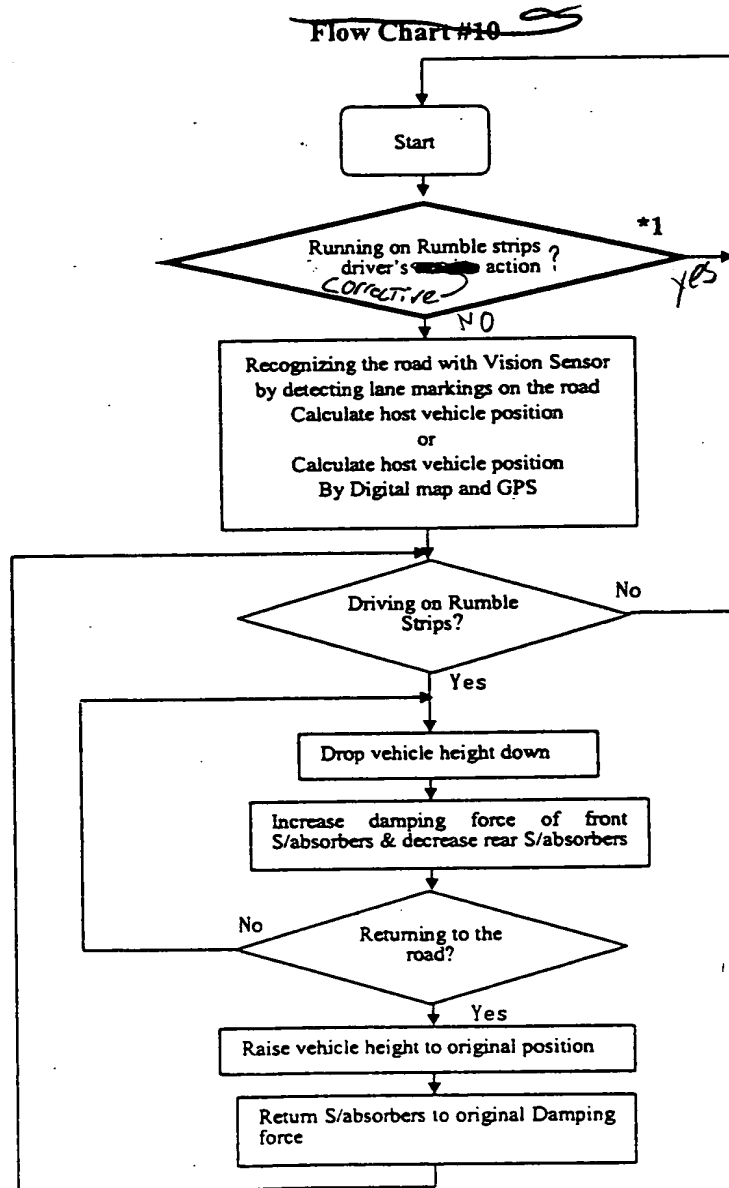


Fig. 24

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*1: Refer to the flow chart
of Fig. 18

Fig. 25